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OM protein - protein search, using sw model

Run on: April 1, 2003, 08:47:16 ; Search time 18 Seconds  
(without alignments)  
1525.005 Million cell updates/sec

Title: US-09-768-781-3

Perfect score: 2316

Sequence: 1 MDRVYIPEEPNVDPVSSLE.....RTRVENSEPPFTEARQSVV 449

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 248812 seqs, 61136040 residues

Total number of hits satisfying chosen parameters: 248812

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA.\*

	1:	2:	3:	4:	5:	6:	7:	8:	9:	10:	11:	12:	13:	14:
	/cgn2_6/ptodata/1/pubpaa/US08 NEW PUB.pep.*	/cgn2_6/ptodata/1/pubpaa/PCT NEW PUB.pep.*	/cgn2_6/ptodata/1/pubpaa/US06 NEW PUB.pep.*	/cgn2_6/ptodata/1/pubpaa/US06 PUBCOMB.pep.*	/cgn2_6/ptodata/1/pubpaa/US07 NEW PUB.pep.*	/cgn2_6/ptodata/1/pubpaa/US07 PUBCOMB.pep.*	/cgn2_6/ptodata/1/pubpaa/PCTUS PUBCOMB.pep.*	/cgn2_6/ptodata/1/pubpaa/US08 PUBCOMB.pep.*	/cgn2_6/ptodata/1/pubpaa/US09 NEW PUB.pep.*	/cgn2_6/ptodata/1/pubpaa/US09 PUBCOMB.pep.*	/cgn2_6/ptodata/1/pubpaa/US10 NEW PUB.pep.*	/cgn2_6/ptodata/1/pubpaa/US10 PUBCOMB.pep.*	/cgn2_6/ptodata/1/pubpaa/US60 NEW PUB.pep.*	/cgn2_6/ptodata/1/pubpaa/US60 PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2316	100.0	449	10	US-09-768-781-3
2	2301	98.4	449	10	US-09-768-781-7
3	2301	98.4	462	10	US-09-768-781-4
4	939.5	40.6	405	10	US-09-768-781-6
5	607	26.2	216	10	US-09-864-761-33387
6	572	24.7	125	9	US-10-092-154-595
7	572	24.7	125	10	US-09-764-847-595
8	354	15.3	128	10	US-09-864-761-37894
9	174.5	7.5	86	10	US-09-864-761-35764
10	113	4.9	686	9	US-10-174-590-524
11	113	4.9	686	9	US-10-176-758-524
12	113	4.9	686	9	US-10-175-737-524
13	113	4.9	686	9	US-10-173-706-524
14	113	4.9	686	9	US-10-173-738-524
15	113	4.9	686	9	US-10-175-752-524
16	113	4.9	686	9	US-10-176-482-524
17	113	4.9	686	9	US-10-176-757-524
18	113	4.9	686	9	US-10-176-913-524
19	113	4.9	686	9	US-10-180-552-524

20	113	4.9	686	9	US-10-180-557-524	Sequence 524, App
21	113	4.9	686	9	US-10-173-700-524	Sequence 524, App
22	113	4.9	686	9	US-10-174-572-524	Sequence 524, App
23	113	4.9	686	9	US-10-174-579-524	Sequence 524, App
24	113	4.9	686	9	US-10-174-582-524	Sequence 524, App
25	113	4.9	686	9	US-10-174-588-524	Sequence 524, App
26	113	4.9	686	9	US-10-175-739-524	Sequence 524, App
27	113	4.9	686	9	US-10-175-740-524	Sequence 524, App
28	113	4.9	686	9	US-10-175-743-524	Sequence 524, App
29	113	4.9	686	9	US-10-176-488-524	Sequence 524, App
30	113	4.9	686	9	US-10-176-492-524	Sequence 524, App
31	113	4.9	686	9	US-10-176-747-524	Sequence 524, App
32	113	4.9	686	9	US-10-176-750-524	Sequence 524, App
33	113	4.9	686	9	US-10-176-985-524	Sequence 524, App
34	113	4.9	686	9	US-10-176-987-524	Sequence 524, App
35	113	4.9	686	9	US-10-176-991-524	Sequence 524, App
36	113	4.9	686	9	US-10-176-992-524	Sequence 524, App
37	113	4.9	686	9	US-10-176-993-524	Sequence 524, App
38	113	4.9	686	9	US-10-184-658-524	Sequence 524, App
39	113	4.9	686	9	US-10-173-695-524	Sequence 524, App
40	113	4.9	686	9	US-10-173-697-524	Sequence 524, App
41	113	4.9	686	9	US-10-173-705-524	Sequence 524, App
42	113	4.9	686	9	US-10-174-576-524	Sequence 524, App
43	113	4.9	686	9	US-10-174-585-524	Sequence 524, App
44	113	4.9	686	9	US-10-174-586-524	Sequence 524, App
45	113	4.9	686	9	US-10-175-747-524	Sequence 524, App

#### ALIGNMENTS

##### RESULT 1

US-09-768-781-3

; Sequence 3, Application US/09768781

; Patent No. US20020142376A1

; GENERAL INFORMATION:

; APPLICANT: MERKULOV, Gennady V. et al

; TITLE OF INVENTION: ISOLATED HUMAN TRANSPORTER PROTEINS,

; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING HUMAN TRANSPORTER PROTEINS,

; FILE REFERENCE: CL001057-CIP

; CURRENT APPLICATION NUMBER: US/09/768,781

; CURRENT FILING DATE: 2001-01-25

; NUMBER OF SEQ ID NOS: 7

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 3

; LENGTH: 449

; TYPE: PRT

; ORGANISM: Human

US-09-768-781-3

Query Match		100.0%;	Score 2316;	DB 10;	Length 449;
Best Local Similarity		100.0%;	Pred. No. 3.2e-213;		
Matches 449;		Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
QY	1	MDRVYIPEEPNVDPVSSLEEDVIRGANPRFTFPFSTFLYCGEASALYVMVIRYRK	60		
DB	1	MDRVYIPEEPNVDPVSSLEEDVIRGANPRFTFPFSTFLYCGEASALYVMVIRYRK	60		
QY	61	NSETYMTYTFSEFFMSSIMVOLTILFVHRDLAKDPLSLFMHLILGVPVIRCLEAMIKY	120		
DB	61	NSETYMTYTFSEFFMSSIMVOLTILFVHRDLAKDPLSLFMHLILGVPVIRCLEAMIKY	120		
QY	121	LTILWKEEPEPVSLTRKMLIDGSEVLIEWGVHSIRTLAMHRNAYKMSQIOAFLGS	180		
DB	121	LTILWKEEPEPVSLTRKMLIDGSEVLIEWGVHSIRTLAMHRNAYKMSQIOAFLGS	180		
QY	181	VPOLTYQLVSLISAEVPIGRVVLVVFSLVSVTYGATLCNMLAIQIKYDDYKIRLGPLEV	240		
DB	181	VPOLTYQLVSLISAEVPIGRVVLVVFSLVSVTYGATLCNMLAIQIKYDDYKIRLGPLEV	240		
QY	241	LCITITWRTLEISRLILVFSATLKLKAVPFLVFLNFIILFEPWIKFWRSQAMPNIE	300		

Db 241 LCITITWRTLEITSRLILVLSATLKLKAVPFLVNLFLILFEPWIKFWRSGAQMNNIE 300  
Qy 301 KNFSRVGTLVNLISVTILYAGINFSCWSALQRLADRLVDKQNGHGLHYSVRLVEN 360  
Db 301 KNFSRVGTLVNLISVTILYAGINFSCWSALQRLADRLVDKQNGHGLHYSVRLVEN 360  
Qy 361 VIMLVKFFGKVLNCHSLIALQLIAYLISIDFMLLFFQYLHPLSLFTHNVVDYL 420  
Db 361 VIMLVKFFGKVLNCHSLIALQLIAYLISIDFMLLFFQYLHPLSLFTHNVVDYL 420  
Qy 421 HCVCCHQHPRTRVNSEPPFTEARQSVV 449  
Db 421 HCVCCHQHPRTRVNSEPPFTEARQSVV 449

## RESULT 2

US-09-768-781-7  
; Sequence 7, Application US/09768781  
; Patent No. US20020142376A1  
; GENERAL INFORMATION:  
; APPLICANT: MERKULOV, Gennady V. et al  
; TITLE OF INVENTION: ISOLATED HUMAN TRANSPORTER PROTEINS,  
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING HUMAN TRANSPORTER PROTEINS,  
; TITLE OF INVENTION: AND USES THEREOF  
; FILE REFERENCE: CL001057-CIP  
; CURRENT APPLICATION NUMBER: US/09/768,781  
; CURRENT FILING DATE: 2001-01-25  
; NUMBER OF SEQ ID NOS: 7  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 7  
; LENGTH: 449  
; TYPE: PRT  
; ORGANISM: Mus Musculus  
US-09-768-781-7

Query Match 99.4%; Score 2301; DB 10; Length 449;  
Best Local Similarity 99.6%; Pred. No. 8.6e-212;  
Matches 447; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 MDRVVEIPEEPNVDPVSSLEEDVIRGANPRFTFPFSILFSTFLYCGEASALYVMVRIYRK 60  
Db 1 MDRVVEIPEEPNVDPVSSLEEDVIRGANPRFTFPFSILFSTFLYCGEASALYVMVRIYRK 60  
Qy 61 NSETYRMTYTFSSFFMFSSIMVQLTLIFVHRDLAKDKPLSLFMHLILLGPIVIRCLEAMIKY 120  
Db 61 NSETYRMTYTFSSFFMFSSIMVQLTLIFVHRDLAKDKPLSLFMHLILLGPIVIRCLEAMIKY 120  
Qy 121 LTLWKKEQEPYVSLTRKMLIDGEEVLIEWEUGHSTRTLAMHRNAYKRMISOIAFLGS 180  
Db 121 LTLWKKEQEPYVSLTRKMLIDGEEVLIEWEUGHSTRTLAMHRNAYKRMISOIAFLGS 180  
Qy 181 VPQITYQLYVSLISAEVPLGRVVLVMSVSVTYGATLCNMLAIQIKYDDYKIRLGPLEV 240  
Db 181 VPQITYQLYVSLISAEVPLGRVVLVMSVSVTYGATLCNMLAIQIKYDDYKIRLGPLEV 240  
Qy 241 LCITITWRTLEITSRLILVLSATLKLKAVPFLVNLFLILFEPWIKFWRSGAQMNNIE 300  
Db 241 LCITITWRTLEITSRLILVLSATLKLKAVPFLVNLFLILFEPWIKFWRSGAQMNNIE 300  
Qy 301 KNFSRVGTLVNLISVTILYAGINFSCWSALQRLADRLVDKQNGHGLHYSVRLVEN 360  
Db 301 KNFSRVGTLVNLISVTILYAGINFSCWSALQRLADRLVDKQNGHGLHYSVRLVEN 360  
Qy 361 VIMLVKFFGKVLNCHSLIALQLIAYLISIDFMLLFFQYLHPLSLFTHNVVDYL 420  
Db 361 VIMLVKFFGKVLNCHSLIALQLIAYLISIDFMLLFFQYLHPLSLFTHNVVDYL 420  
Qy 421 HCVCCHQHPRTRVNSEPPFTEARQSVV 449  
Db 421 HCVCCHQHPRTRVNSEPPFTEARQSVV 449

## RESULT 3

US-09-768-781-4  
; Sequence 4, Application US/09768781  
; Patent No. US20020142376A1  
; GENERAL INFORMATION:  
; APPLICANT: MERKULOV, Gennady V. et al  
; TITLE OF INVENTION: ISOLATED HUMAN TRANSPORTER PROTEINS,  
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING HUMAN TRANSPORTER PROTEINS,  
; TITLE OF INVENTION: AND USES THEREOF  
; FILE REFERENCE: CL001057-CIP  
; CURRENT APPLICATION NUMBER: US/09/768,781  
; CURRENT FILING DATE: 2001-01-25  
; NUMBER OF SEQ ID NOS: 7  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 4  
; LENGTH: 462  
; TYPE: PRT  
; ORGANISM: Human  
US-09-768-781-4

Query Match 99.4%; Score 2301; DB 10; Length 462;  
Best Local Similarity 99.6%; Pred. No. 8.9e-212;  
Matches 447; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 MDRVVEIPEEPNVDPVSSLEEDVIRGANPRFTFPFSILFSTFLYCGEASALYVMVRIYRK 60  
Db 14 MDRVVEIPEEPNVDPVSSLEEDVIRGANPRFTFPFSILFSTFLYCGEASALYVMVRIYRK 73  
Qy 61 NSETYRMTYTFSSFFMFSSIMVQLTLIFVHRDLAKDKPLSLFMHLILLGPIVIRCLEAMIKY 120  
Db 74 NSETYRMTYTFSSFFMFSSIMVQLTLIFVHRDLAKDKPLSLFMHLILLGPIVIRCLEAMIKY 133  
Qy 121 LTLWKKEQEPYVSLTRKMLIDGEEVLIEWEUGHSTRTLAMHRNAYKRMISOIAFLGS 180  
Db 134 LTLWKKEQEPYVSLTRKMLIDGEEVLIEWEUGHSTRTLAMHRNAYKRMISOIAFLGS 193  
Qy 181 VPQITYQLYVSLISAEVPLGRVVLVMSVSVTYGATLCNMLAIQIKYDDYKIRLGPLEV 240  
Db 194 VPQITYQLYVSLISAEVPLGRVVLVMSVSVTYGATLCNMLAIQIKYDDYKIRLGPLEV 253  
Qy 241 LCITITWRTLEITSRLILVLSATLKLKAVPFLVNLFLILFEPWIKFWRSGAQMNNIE 300  
Db 254 LCITITWRTLEITSRLILVLSATLKLKAVPFLVNLFLILFEPWIKFWRSGAQMNNIE 313  
Qy 301 KNFSRVGTLVNLISVTILYAGINFSCWSALQRLADRLVDKQNGHGLHYSVRLVEN 360  
Db 314 KNFSRVGTLVNLISVTILYAGINFSCWSALQRLADRLVDKQNGHGLHYSVRLVEN 373  
Qy 361 VIMLVKFFGKVLNCHSLIALQLIAYLISIDFMLLFFQYLHPLSLFTHNVVDYL 420  
Db 374 VIMLVKFFGKVLNCHSLIALQLIAYLISIDFMLLFFQYLHPLSLFTHNVVDYL 433  
Qy 421 HCVCCHQHPRTRVNSEPPFTEARQSVV 449  
Db 434 HCVCCHQHPRTRVNSEPPFTEARQSVV 462

## RESULT 4

US-09-768-781-6  
; Sequence 6, Application US/09768781  
; Patent No. US20020142376A1  
; GENERAL INFORMATION:  
; APPLICANT: MERKULOV, Gennady V. et al  
; TITLE OF INVENTION: ISOLATED HUMAN TRANSPORTER PROTEINS,  
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING HUMAN TRANSPORTER PROTEINS,  
; TITLE OF INVENTION: AND USES THEREOF  
; FILE REFERENCE: CL001057-CIP  
; CURRENT APPLICATION NUMBER: US/09/768,781  
; CURRENT FILING DATE: 2001-01-25  
; NUMBER OF SEQ ID NOS: 7  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 6  
; LENGTH: 405  
; TYPE: PRT

ORGANISM: Mus musculus  
US-09-768-781-6

Query Match 40.6%; Score 939.5; DB 10; Length 405;  
Best Local Similarity 43.8%; Pred. No. 9.6e-82;  
Matches 180; Conservative 85; Mismatches 135; Indels 11; Gaps 4;  
QY 33 PPSILFSTFLYCEAASALYVWIRKNSSTYRMTYTFSPFESSIMVQLTLPVHRDL 92  
DB 1 FPAVIAVFLFAETAAALYSSTYSAGDRMKQVLTLPESLPCALVQFTLPVHRDL 60  
QY 93 AKDKPSLPHLLIGVIRGLEAMIKYLTKKKEDEEPPYVSTRK-MLIDGEEVLIE 151  
DB 61 SRDRPLALLMHLQLGLPLRCCEVFCIYC--QSDNEEPVSVTKKQMPKDGSLBEVE 117  
QY 152 WEYGHSTRTLAMERNYKRSQIOAFGLSGVPOLTYQLYVLSLISAEVPLGRVLMVFLSVS 211  
DB 118 KEVQAEGKLIHRSASFASRAVIOAFGLSAPQLTQLYITVLEQNITTGRCFIMTSLLS 177  
QY 212 VTGATLCNMLAIQIKYDDYKIRGLPLEVLCITITRTLEITSRLILVLSATLKLKAVP 271  
DB 178 IVYGALRCNLAIKIKYDEYEVKVPYAVYCFILWRGFETATRVIVLFTSVLKIWVA 237  
QY 272 FLVNLFIILFEPWIKFWRSGAQMNNIEKNFNRVGTGLVVLISVTILYAGINFCWSALQ 331  
DB 238 VILVNFPSPLYPWIFWCSGSPPENIERALS RVGTIVLCFLTLTYAGINFCWSAVQ 297  
QY 332 LRLADRLVDKQNGWGHMGLHYSVRLVENIMVLVFPFGVKVLLNCHSLIALQLIAY 391  
DB 298 LKTDNPELISKQNWYRLLYIYMTFRFISNVLVLLMLFFKTDIYMYVCAPLLIQLLIGY 357  
QY 392 LISIDFMLLPFQYLHPLRSIFTHNVD---YLHCVCCHQHPRTVENSEP 438  
DB 358 CTGILFVLVYQFHPCKLUFSSVSSEFRALLRACWSS---LRRKSSEP 405

RESULT 5  
US-09-864-761-33387  
Sequence 33387, Application US/09864761  
Patent No. US20020048763A1  
GENERAL INFORMATION:  
APPLICANT: Penn, Sharron G.  
APPLICANT: Rank, David R.  
APPLICANT: Hanzel, David K.  
APPLICANT: Chen, Wensheng  
TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR  
FILE REFERENCE: Aeonica-X-1  
CURRENT APPLICATION NUMBER: US/09/864, 761  
PRIOR FILING DATE: 2001-05-23  
PRIOR APPLICATION NUMBER: US 60/180,312  
PRIOR FILING DATE: 2000-02-04  
PRIOR APPLICATION NUMBER: US 60/207,456  
PRIOR FILING DATE: 2000-05-26  
PRIOR APPLICATION NUMBER: US 09/632,366  
PRIOR FILING DATE: 2000-08-03  
PRIOR APPLICATION NUMBER: GB 24263, 6  
PRIOR FILING DATE: 2000-10-04  
PRIOR APPLICATION NUMBER: US 60/236,359  
PRIOR FILING DATE: 2000-09-27  
PRIOR APPLICATION NUMBER: PCT/US01/00666  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00667  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00664  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00669  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00665  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00668  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00663

PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00662  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00661  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00670  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: US 60/234,687  
PRIOR FILING DATE: 2000-09-21  
PRIOR APPLICATION NUMBER: US 09/608,408  
PRIOR FILING DATE: 2000-06-30  
PRIOR APPLICATION NUMBER: US 09/774,203  
PRIOR FILING DATE: 2001-01-29  
NUMBER OF SEQ ID NOS: 49117  
SOFTWARE: Annomax Sequence Listing Engine vers. 1.1  
SEQ ID NO 33387  
LENGTH: 216  
TYPE: PRT  
ORGANISM: Homo sapiens  
FEATURE:  
OTHER INFORMATION: MAP TO AC005301.16  
OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 1.3  
OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1.5  
OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 1.5  
OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 1.3  
OTHER INFORMATION: EXPRESSED IN HBL100, SIGNAL = 1.2  
OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 1.7  
OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 1.6  
OTHER INFORMATION: EXPRESSED IN BT474, SIGNAL = 1.1  
OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 1.3  
OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 1.8  
OTHER INFORMATION: EST HUMAN HIT: AA256009.1, EVALUO 3.00e-13  
OTHER INFORMATION: SWISSPROT HIT: P51811, EVALUO 8.00e-41  
US-09-864-761-33387

Query Match 26.2%; Score 607; DB 10; Length 216;  
Best Local Similarity 55.1%; Pred. No. 2.5e-50;  
Matches 109; Conservative 42; Mismatches 47; Indels 0; Gaps 0;  
QY 213 TYGATLCNMLAIQIKYDDYKIRGLPLEVLCITITRTLEITSRLILVLSATLKLKAVPF 272  
DB 1 TYGAIRCNLAIQISNDTITKLPPIEFFCVMMRFLVISRVVTLAFFIASLKLSPV 60  
QY 273 LVNLFIILFEPWIKFWRSGAQMNNIEKNFNRVGTGLVVLISVTILYAGINFCWSALQ 332  
DB 61 LLIIYFVSLAPLWLEFPWKGAHLFGKNNNSNMVGTVMFLFLITLLYAAINFSCWSAVKL 120  
QY 333 RLADRLVDKQNGWGHMGLHYSVRLVENIMVLVFPFGVKVLLNCHSLIALQLIAYL 392  
DB 121 QLSDDKIIDGRQWRGHRILHYSFQFLENIMILVFRFPGKTLNCCDSLIAVQLIISYL 180  
QY 393 ISIDFMLLPFQYLHPLRS 410  
DB 181 LATCFMLLFYQLYLPWQS 198

RESULT 6  
US-10-092-154-595  
Sequence 595, Application US/10092154  
Publication No. US20030054375A1  
GENERAL INFORMATION:  
APPLICANT: Rosen et al.  
TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies  
FILE REFERENCE: PC009C1  
CURRENT APPLICATION NUMBER: US/10/092,154  
CURRENT FILING DATE: 2002-03-07  
NUMBER OF SEQ ID NOS: 2003  
Prior Application removed - See File Wrapper or Palm  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 595  
LENGTH: 125  
TYPE: PRT  
ORGANISM: Homo sapiens

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; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (70)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: misc_feature
; LOCATION: (75)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: misc feature
; LOCATION: (81)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: misc_feature
; LOCATION: (83)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-10-092-154-595

Query Match      24.7%; Score 572; DB 9; Length 125;
Best Local Similarity 94.7%; Pred. No. 2.6e-47;
Matches 108; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

QY 312 LISVTILYAGINFCWSALQRLADRLVDKQNGHMGHLHYSVRLVENIMVLVFKPFG 371
Db 12 LISVTILYAGINFCWSALQRLADRLVDKQNGHMGHLHYSVRLVENIMVLVFKPFG 71

QY 372 VKVLNYCHSLIALQLIAYLISIDFMLLFFQYLHPLRSLSLFTNNVVDYLHCVCC 425
Db 72 VKVLNYCHSLIALQLIAYLISIDFMLLFFQYLHPLRSLSLFTNNVVDYLHCVCC 125

RESULT 7
US-09-764-847-595
; Sequence 595, Application US/09764847
; Patent No. US20020132767A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PC009
; CURRENT APPLICATION NUMBER: US/09/764,847
; CURRENT FILING DATE: 2001-01-17
; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 2003
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 595
; LENGTH: 125
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (70)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
; LOCATION: (75)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
; LOCATION: (81)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
; LOCATION: (83)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-09-764-847-595

Query Match      24.7%; Score 572; DB 10; Length 125;
Best Local Similarity 94.7%; Pred. No. 2.6e-47;
Matches 108; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

QY 312 LISVTILYAGINFCWSALQRLADRLVDKQNGHMGHLHYSVRLVENIMVLVFKPFG 371
Db 12 LISVTILYAGINFCWSALQRLADRLVDKQNGHMGHLHYSVRLVENIMVLVFKPFG 71

QY 372 VKVLNYCHSLIALQLIAYLISIDFMLLFFQYLHPLRSLSLFTNNVVDYLHCVCC 425
Db 72 VKVLNYCHSLIALQLIAYLISIDFMLLFFQYLHPLRSLSLFTNNVVDYLHCVCC 125
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RESULT 8
US-09-864-761-37894
; Sequence 37894, Application US/09864761
; Patent No. US20020048763A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Sharron G.
; APPLICANT: Rank, David R.
; APPLICANT: Hanzel, David K.
; APPLICANT: Chen, Wensheng
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
; FILE REFERENCE: Aescmca-x-1
; CURRENT APPLICATION NUMBER: US/09/864,761
; CURRENT FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: US 60/180,312
; PRIOR FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 09/632,366
; PRIOR FILING DATE: 2000-08-03
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00662
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00661
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00670
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 60/234,687
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: US 09/608,408
; PRIOR FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: US 09/774,203
; PRIOR FILING DATE: 2001-01-29
; NUMBER OF SEQ ID NOS: 49117
; SOFTWARE: Annonax Sequence Listing Engine vers. 1.1
; SEQ ID NO 37894
; LENGTH: 128
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: MAP TO AC007064.22
; OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 1.1
; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 0.92
; OTHER INFORMATION: EST HUMAN HIT: AA256009.1, EVALUATE 2.00e-13
; OTHER INFORMATION: SWISSPROT HIT: P51811, EVALUATE 5.00e-18
US-09-864-761-37894

Query Match      15.3%; Score 354; DB 10; Length 128;
Best Local Similarity 59.6%; Pred. No. 1.8e-26;
Matches 65; Conservative 23; Mismatches 21; Indels 0; Gaps 0;

QY 302 NFSRGTGLVLIISVTILYAGINFCWSALQRLADRLVDKQNGHMGHLHYSVRLVENV 361
Db 2 NSNMVGTGLVLIISVTILYAGINFCWSALQRLADRLVDKQNGHMGHLHYSVRLVENV 61

QY 362 IMVLVFKPFGVKVLNYCHSLIALQLIAYLISIDFMLLFFQYLHPLRS 410
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Db 62 IMILVPRFFGGKTLNCCDSLIAVQLIISYLLATGFMLLFYOYL PWOS 110

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RESULT 9
US-09-864-761-35764
; Sequence 35764, Application US/09864761
; Patent No. US20020048763A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Sharon G.
; APPLICANT: Rank, David R.
; APPLICANT: Hanzel, David K.
; APPLICANT: Chen, Wensheng
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
; TITLE OF INVENTION: GENE EXPRESSION ANALYSIS BY MICROARRAY
; FILE REFERENCE: Aeonica-X-1
; CURRENT APPLICATION NUMBER: US/09/864, 761
; CURRENT FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: US 60/180,312
; PRIOR FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 09/632,366
; PRIOR FILING DATE: 2000-08-03
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00662
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00661
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00670
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 60/234,687
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: US 09/608,408
; PRIOR FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: US 09/774,203
; PRIOR FILING DATE: 2001-01-29
; NUMBER OF SEQ ID NOS: 49117
; SOFTWARE: Annonmax Sequence Listing Engine vers. 1.1
; SEQ ID NO 35764
; LENGTH: 86
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: MAP TO AL121577.1
; OTHER INFORMATION: EXPRESSED IN BT474, SIGNAL = 1.2
; OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 2.3
; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 1.6
; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1.8
; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 2.4
; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 1.5
; OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 2.2
; OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 2.2
; OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 2
; OTHER INFORMATION: EXPRESSED IN HEL100, SIGNAL = 3.3
; OTHER INFORMATION: EST HUMAN HIT: A1697050.1. EVALU6 6.00e-43

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[illegible]

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RESULT 10
US-10-174-590-524
; Sequence 524, Application US/10174590
; Publication No. US20030008352A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; ACIDS ENCODING THE SAME
; FILE REFERENCE: P3430R1C42
; CURRENT APPLICATION NUMBER: US/10/174,590
; CURRENT FILING DATE: 2003-06-18
; Prior application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 524
; LENGTH: 686
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-174-590-524

```

Query Match	4.9%;	Score 113;	DB 9;	Length 686;
Best Local Similarity	20.8%;	Pred. No. 0.018;		
Matches	80;	Conservative 57;	Mismatches 159;	Indels 88; Gaps

  

QY	40	STFLYCGEASALYVMYRIYKKNSETYRMVYTSFFMFFSSIMVQLTILFVHRDLAKDKPLS	99
DB			
		:::	:::
		:::	:::
QY	9	SALLQAEQSARLYTVAYVYTTGRLLMGWLAUULLPGFLVQALSYLMFPRADGPHGCSL	68
DB			
		:::	:::
		:::	:::
QY	100	LFMHLILLGPVIRCLEAMIKYITLWKKEQBQEPYVSLTRKKMLIDGEEVLIEWEVGHSIR	159
DB			
		:::	:::
		:::	:::
QY	69	VMLHLILLQGVKRWKHDAAATLSL----	101
DB			
		:::	:::
		:::	:::
QY	160	TLAMHRNAVYKRSQIQAFIGSVDPQITYQLYVSLISAEVPLGRVLMVPSLVSYVTYGATLC	219
DB			
		:::	:::
		:::	:::
QY	102	-LQLEADILSALRLLEALLQTFPHILLQTYVFLASDFTDIVPGVSTLFSWSLWAL----	157
DB			
		:::	:::
		:::	:::
QY	220	NMLAIGIKYDDYKIRLGP-----	272
DB			
		:::	:::
		:::	:::
QY	158	-----VSTRFMGFMKPGHLLAMPWAAALFCQOLWRMGMLGTGLVSLVLF-----	206
DB			
		:::	:::
		:::	:::
QY	273	LVNLFLIILFEPWI--KFWRSGAQMNNIEKNFS--RVGTLVVLISVTILYAGINSCWSA	329
DB			
		:::	:::
		:::	:::
QY	207	WV----FVVAAGAHVMTFWLV-AQOSDIIDSTCHWRLLFNLLYGAVYILCY-----	258
DB			
		:::	:::
		:::	:::
QY	330	LQLRLADRLVDKQNGWGHMLHYSVRLVENVMVLYVKFF--GVKVLNLYCHSLIALQL	387
DB			
		:::	:::
		:::	:::
QY	259	-----PSRNRMVTFYVMMLLENILLILATDPLQGA-----	296
DB			
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		:::	:::



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; TITLE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P3430R1C7
; CURRENT APPLICATION NUMBER: US/10/173,706
; PRIOR FILING DATE: 2002-06-17
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 524
; LENGTH: 686
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-173-706-524

Query Match 4.9%, Score 113, DB 9, Length 686;
Best Local Similarity 20.8%; Pred. No. 0.018;
Matches 80; Conservative 57; Mismatches 159; Indels 88; Gaps

Qy 40 STFLVCGEAAALYMRIRKNSYTYRWYTFSSFFMFSSIMVQLTLIFVHRDLAKOKPLS 99
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Qy 100 LPMHLILGPVIRCLEAMIKYLTLMKKEOEPEPYVSLTRKMKMLIDGSEVLIEWGVHSIR 159
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Qy 160 TLAMHRNAYKMSQIQAPLGVSPQLTQLYVSLISAEVPLGRVVLVMSVSYTYGATLC 219
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Qy 220 NMLAIQIKYDDYKIRLGP-----LEVLCTIIMRTLEITSRLILVLSATLKLKAVPF 272
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Qy 273 LVNLFLIILPEPWl--KFWRSGAOMPNNIEKNFS-RVGTIWLVLISVTILYAGINFCWSA 329
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Qy 330 LQLRLADRLVDKQNGHGMHLGHSYRVLVENVMVLVFKPF--GVKVLNLYCHSLIALQL 387
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Qy 388 II-----AYLISIDFMWLLFFQYLHP 407
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Qy 297 IAGVLSGLIGSVLSVIYYSLLHP 320
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

RESULT 14
US-10-175-738-524
; Sequence 524, Application US/10175738
; Publication No. US2003002294A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C45
; CURRENT APPLICATION NUMBER: US/10/175,738
; PRIOR FILING DATE: 2002-06-19
; Prior application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 524
; LENGTH: 686
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-175-738-524

```

Query Match	4.9%;	Score 113;	DB 9;	Length 686;	
Best Local Similarity	20.8%;	Pred. No. 0.018;			
Matches	80;	Conservative	57;	Mismatches 159;	Indels 88; Gaps
QY	40	STFLYCGEAAALYMWRIYRKNSETYRTMTYTFSEFFSSIMVOLTILFVHRDLAKDKPLS	99		
Db	9	SALLQAAEQSARLLTYVAYTTTGELLMGLALAVLLPGFLVQALSIVLFRADGHPGCHSL	68		
QY	100	LPMHILLGPVIRCLEAMIKYILTINWKEBQEBYVSLTRKKMLIDGEEVLIEWVEGHSIR	159		
Db	69	WNLHLLQGVWKRWDAAATSL-----QKELEAPHRG-----W-----	101		
QY	160	TLAMHRNAYKEMSOIQAFGLSGVPOLTVQLVSLISAEVPLGRVULMVESIVSYTYGATLC	219		
Db	102	-LQIQEADLSALRLLEALLQTPHILLQTVTVFLASFTDIPVGVSTLFSWSSLWAL---	157		
QY	220	NMLAIQIKYDDYKIRLGP-----LEVLCITITWRTLEITSRLILVLFSATLKLKAVPF	272		
Db	158	-----VSYTRFMGFMPKPGHLAMPWAALFCQQLWRMGMLGTRVLSLVLF-----	206		
QY	273	LVLNPLILPEPWI--KFWRSQAGMPNNIEKNFS-RVGTILVVLISVTILYAGINFSCWA	329		
Db	207	WV-----FVVAGAHVLWMTFWLIV-AQQSDIIDSTCHWLFNLLNGAVYILCY-----	258		
QY	330	LQLRLADRLVDKQNGHGMGLHYSVRLVBNVIMVLVFKPF--GVKVLNNYCHSLTALQL	387		
Db	259	-----PSNRNVTFWVWVLENIILLLATDTFQGA-----SWTSLOT	296		
QY	388	II-----AYLISIDFMLLFFOYLHP	407		
Db	297	IAGVLSGFLIGSVLSVIYYSLLHP	320		

RESULT 15  
 US-10-175-524  
 ; Sequence 524, Application US/10175752  
 ; Publication No. US20030022295A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Baker, Kevin P.  
 ; APPLICANT: Chen, Jian  
 ; APPLICANT: Deenoyers, Luc  
 ; APPLICANT: Goddard, Audrey  
 ; APPLICANT: Godowski, Paul J.  
 ; APPLICANT: Gurney, Austin L.  
 ; APPLICANT: Pan, James  
 ; APPLICANT: Smith, Victoria  
 ; APPLICANT: Watanabe, Colin K.  
 ; APPLICANT: Wood, William I.  
 ; APPLICANT: Zhang, Zemin  
 ; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
 ; TITLE OF INVENTION: ACIDS ENCODING THE SAME  
 ; FILE REFERENCE: P3430RIC60  
 ; CURRENT APPLICATION NUMBER: US/10/175,752  
 ; CURRENT FILING DATE: 2002-06-19  
 ; Prior Application removed - See file Wrapper or Palm  
 ; NUMBER OF SEQ ID NOS: 612  
 ; SEQ ID NO 524  
 ; LENGTH: 686  
 ; TYPE: PRT  
 ; ORGANISM: Homo Sapien  
 US-10-175-524

[illegible]

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Db 69 VMLHLLQLGVVWRHWAALTSL-----QKELEAPHRG-----W----- 101
Qy 160 TLAMHRNAYKMSQIQAEFLGSPQLTYQLYVSLISAEPVPLGRVVLVWPSLVSVTYGTILC 219
Db 102 -LQLOEADLSALRLLEALLQTGPHLLLOTYVFLASDFTDIVEGVSTLFSWSSLSWAL--- 157
Qy 220 NMLAIQIKYDDYKIRLGP-----LEVLCITWRTLEITSRLILVLFSATLKLKAVPF 272
Db 158 -----VSYTFMGPMKFGHLAMPWAALFCQQLWRMGMLGTRVLSLVLF-----YKAYHP 206
Qy 273 LVNLFLIILFEPWI--KFWRGGAQMPNNIEKNFS--RVGTLVVLISVTILYAGINFSCWSA 329
Db 207 WV---FVVAGAHWLVMTEFLV-AQOSDIIDSTCHWRLFNLLVGAVVILCY-----LSPWDS 258
Qy 330 LQRLADRDLDVKQGNWGHMGLHYSVRLVENVMVLVFKFP--GVKVLNLYCHSLIALQL 387
Db 259 -----PSRNRMTVTYVMVMLENIILLLATDFLOGA-----SWTSLQT 296
Qy 388 II-----AYLISIDFMLLFFOVLHP 407
Db 297 IAGVLGFLIGSVSLVYYSLHP 320
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Search completed: April 1, 2003, 08:51:03  
Job time : 21 secs